

Product Support Bulletin

Subject: PriorityFax 2000/3000 Maintenance Switch Function Tables

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The purpose of this document is to describe the PriorityFax 2000/3000 maintenance soft switch functions and supply instructions for accessing them.

ACCESSING THE MAINTENANCE MODE

1. In normal operation mode without a document inserted, press "FUNCTION • 2 8 6 4" in the following sequence.
 - A. Press "FUNCTION" then immediately press "•".
 - B. The unit will beep 3 times.
 - C. Immediately following the 3 beeps, press ' 2 8 6 4 '.

NOTE: Numbers must be pressed in rapid succession.
2. The unit will emit one long beep and the LCD will display "MAINTENANCE", indicating it is in maintenance mode.

If the LCD does not display 'MAINTENANCE', press "STOP", wait for the LCD to display the date and time, then try step 1 again. Call Epson Product Support at 213-539-9955 if assistance is required.
3. There are 2 levels of soft switch functions accessible in the maintenance mode. Table 1 lists the initial level functions. Tables 2, 3, and 4 list the second level functions. The tables are located at the end of this document.
4. To activate one of the functions listed in Tab 1, enter the initial maintenance mode. Enter the two digit 'Switch Number' with the keys on the control panel. The unit will perform the function and return to the initial maintenance mode.

The functions marked 'NOT USED' are either not available or require Specialized equipment. They should only be accessed by an authorized Epson Customer Care Center.

5. Pressing the “STOP” key in the initial maintenance mode returns the unit to normal operation.

Pressing the “STOP” key when only one digit has been entered returns the unit to the initial maintenance mode.

The unit returns to the initial maintenance mode when the number entered does not correspond to a function listed in Table 1.

EEPROM PARAMETER INITIALIZATION

Function

Sets the EEPROM memory content, user switch data, and soft switch data to the factory default settings.

Operation Method

1. To activate the EEPROM Parameter Initialization, enter the initial maintenance mode. Press the “0” key one time **and** then press the “1” key one time. The LCD will display “PARAMETER INIT”.
2. Upon completion of the EEPROM Parameter Initialization, the unit Will emit one long beep indicating it has returned to the initial maintenance mode.

EEPROM WHITE LEVEL DATA INITIALIZATION

Function

The unit spans a blank white sheet of paper to establish a white level reference point that is used for comparison of black **and white** levels.

Operation Method

1. To activate the EEPROM White Level Data **Initialization**, enter the **initial** maintenance mode. Load a blank white sheet of paper in the document slot.
2. Press the “0” key one time and then press the “2” key one time. The LCD will display “WHITE LEVEL **INIT**”.
3. Upon completion of the EEPROM white Level Data Initialization, the unit will emit one long beep indicating it has returned to the initial maintenance mode.

EST PATTERN

1. To print the test pattern, enter the initial maintenance mode. Press the “0” key one time and then press the “9” key one time. The unit will continue to display “MAINTENANCE” on the LCD and print a test pattern as shown in Figure 1.
2. Upon completion of printing the test pattern, the unit will emit one long beep indicating it has returned to the initial maintenance mode.

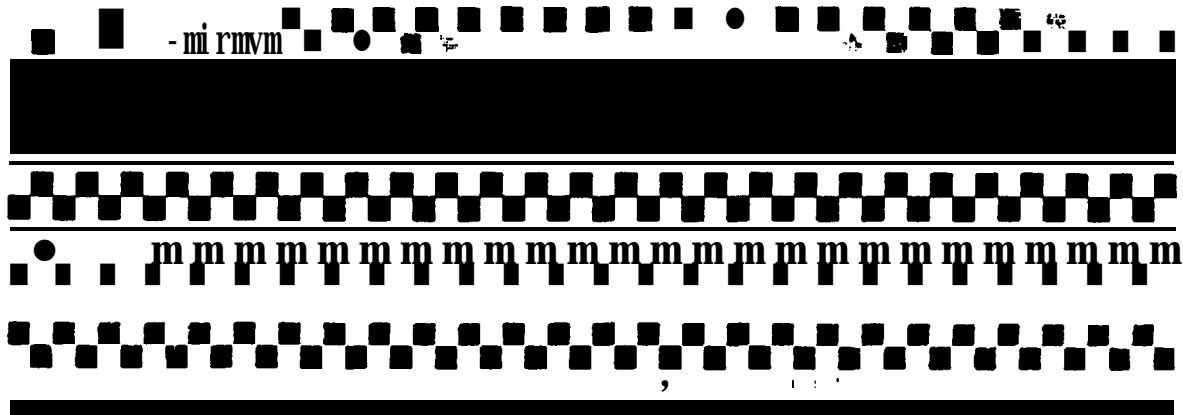


Figure 1

SECOND LEVEL SOFT SWITCH FUNCTIONS

1. To **enter** the **Second Level** Soft Switch Functions, **enter** the initial **maintenance mode**. Press the **"1"** key one time and **then** press the **"0"** key one time. When **the** unit is **set** to the factory default settings, the LCD will display **"WSW1 = 00000000"**. Each **"0"** is **referred** to as a 'Switch' and they are numbered from **left** to right 1 through 8. Table 2 lists the function of **each** WSW1 switch.
2. **The** cursor, which is the line under the first 0 on the LCD, can be **moved** under any of the 8 characters that **need** to be changed by using **the** **"#"** or **"**"** key.
3. To **change** a function place the cursor under the switch that needs to be changed and press either the **"1"** or **"0"** key as necessary.

4. Pressing the "Next" key will store the values of **WSW1** in the EEPROM and make **"WSW2"** available for change. **When** the unit is set to the factory default settings, the LCD will display **"WSW2 = 11000000"**. Table 3 lists the function of **each WSW2** switch.
5. In this mode, every time **the "NEXT"** key is pressed, the Current switch settings are finalized and the next switch bank, **WSW1**, WSW2 or WSW3, in that order, is made available. Table 4 lists the function of each WSW3 switch.
6. If **the "SET"** key is pressed, the current switch bank settings are saved. The unit then emits one long **beep** indicating that it has returned to the initial maintenance mode.
7. **When** the **"STOP"** key is **pressed**, any changes made are canceled. **The Unit then emits one long beep** indicating that it has **return to the initial maintenance mode**.

SECOND LEVEL SOFT SWITCH FUNCTION DESCRIPTIONS

Table 2 Switch 1: Overseas communication **mode (reception)**

Setting switch 1 to a "1" allows the unit to acknowledge the 1100 Hz signal that suppresses echoes, instead of a 2100 Hz which disables the echo suppressor (ES). Suppressing **the echoes provides** a more **reliable method** of establishing communications.

Table 2 Switches 2 & 3: Overseas communication **mode (Transmission)**

When switch 2 is **set** to '1' and 3 is **set** to **"0"**, the unit **ignores** the DIS signal sent from the calling station for suppressing echoes. Note: Some called **models may cause an** error by receiving an **echoed** DIS.

When both switches 2 and 3 are **set to "1"**, the unit **transmits** an 1100 Hz signal for **3 seconds** upon detection of the DIS V.21 **flag**. This **operation prevents** the called **station** from receiving its own **DIS** and enables a no- **carrier state** until **the** unit transmits a **subsequential DIS**.

Table 2 **Switch 4: Direct** connection **mode**

When this **switch** is **set** to 1, **the** unit **starts** receiving signals **from the remote station when the "START" key is** pressed, **regardless** of whether the hand **set** is on – hook or off – hook. This mode is used for Cross testing **2 fax** machines when they **are** connected directly to **each other**.

Table 3 – Switches 1 – 4: Start/End Transmission speed in G3 mode

The starting and ending transmission speed can be set separately in G3 overseas communication mode. If there is excessive noise, decrease the starting **speed**. **Increase** the ending **speed** if the transmission of the document **takes** too long. These settings are independent of the overseas communications mode (Table 2 switches 2 and 3).

Table 4 – Switches 3 & 4: Modem Equalizer

These switches are **used** for setting the Modem **Equalizer** to compensate for line loss. **The** function section of Table 4 lists the relationship between the line loss and the appropriate switch setting that compensates for that loss.

Table 4 – Switches **5** – 8: Modem Attenuator

These switches are used to adjust the transmission level attenuation. The amount of attenuation is **accumulative** when setting more than one switch to "1". For example, if switches 5 and 6 are set to "1" and switches 7 and 8 are set to "0", the accumulative attenuation is 12 **dB**. **The** maximum attenuation with all the switches set to "1" is 15 **dB**. When a switch in this section of table 4 is **set** to "0" that switch value is 0 **dB**.

SECOND LEVEL SOFT SWITCH DATA PRINTOUT

Operation Method

1. To print the "SYSTEM **CONFIGURATION LIST**" which contains the Second **Level** Soft Switch Data, **enter the** initial maintenance **mode**. Press the "1" key twice. **The** LCD will continue to display "MAINTENANCE" and the 'SYSTEM **CONFIGURATION LIST**' will be printed.
2. Upon completion of printing the "SYSTEM **CONFIGURATION LIST**", the unit will emit one long **beep** indicating it has **returned** to the initial maintenance mode.

LCD FUNCTION TEST

Operation method

1. To activate the LCD Function Test, enter the initial maintenance mode.
Set the "Ring Delay" switch to the "4" position.
2. Press the "1" key one time and then press the "2" key one time. The LCD will display an oblique pattern (see Figure 2).
3. Confirm that the LCD changes from the oblique, to the all black, and then the all white pattern every time the "**START**" key is pressed.
4. set the "Ring **Delay**" switch to the "**1**" position. **The** unit will emit one **long** beep indicating it has **returned to the** initial **maintenance mode**.

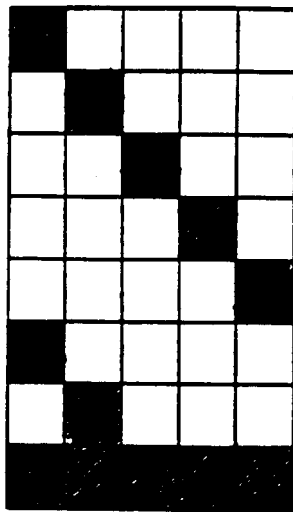


Figure 2

TAD RAM CHECK (PF3000 only)

Function

This function checks whether the TAD (Telephone Answering Device) RAM functions correctly.

Operation Method

1. To activate the TAD RAM CHECK, enter the initial maintenance mode. Press the "1" key one time and then press the "3" key one time. The LCD will display "TAD RAM CHECK".
2. Upon completion of the test, the unit will emit one long beep indicating it has returned to the initial maintenance mode.
3. If an error is detected during the TAD RAM check, the unit will emit a beep and the LCD will display "TAD RAM ERROR".
4. Press the "STOP" key while the LCD is displaying **"TAD RAM ERROR"**, the unit will emit one long **beep** indicating it has **returned** to the initial maintenance mode.

Switch Number	Function Description
01	EEPROM PARAMETER INITIALIZATION
02	EEPROM WHITE LEVEL DATA INITIALIZATION
03	NOT USED
04	NOT USED
05	NOT USED
06	NOT USED
07	NOT USED
08	NOT USED
09	TEST PATTERN
10	SECOND LEVEL SWITCH FUNCTIONS
11	SECOND LEVEL SWITCH DATA PRINTOUT
12	LCD FUNCTION CHECK
13	TAD RAM CHECK (PF3000 only)
14	NOT USED

Table 1

Switch Number	Description	Switch Setting	Function
1	OVERSEAS COMMUNICATION MODE (Reception)	0 1	OFF ON
2,3	OVERSEAS COMMUNICATION MODE (Transmission)	2, 3 0, 0 1, 0 1, 1	OFF Ignores DIS once Transmits 1100Hz
4	DIRECT CONNECTION MODE	0 1	OFF ON
5-8	NOT USED		

Table 2

Switch Number	Description	Switch Setting	Function
1,2	bps at the start of G3 communications mode	1,2 0,0 0,1 1,0 1,1	 2400 bps 4800 bps 7200 bps 9600 bps
3,4	bps at the end of G3 communications mode	3,4 0,0 0,1 1,0 1,1	 2400 bps 4800 bps 7200 bps 9600 bps
5-8	NOT USED		

Table 3

Switch Number	Description	Switch Setting	Function
1,2	NOT USED		
3,4	MODEM EQUALIZER Note: The Line Loss shown is compensated for by the displayed switch setting	3,4 0,0 0,1 1,0 1,1	Line Loss 0-2 db 2-6 db 6-10 db > 10 db
	MODEM ATTENUATOR		Attenuation
5	Note: Setting any of these switches to zero gives that	1	8 db
6		1	4 db
7	• zero db	1	2 db
8	value.	1	1 db

Table 4